

Accessibility Summary: Australia's Electricity Generation and Pricing by State

These six graphs show electricity generation and wholesale pricing across Australian states over a 24-hour period. They illustrate how different energy sources contribute to the grid and corresponding wholesale prices across the states.

State-by-State Overview:

Graph 1: Queensland's electricity generation and wholesale pricing: In Queensland, coal is the predominant fuel source used to generate electricity throughout the day. Other sources include solar, wind, hydro, batteries, gas and imports. During sunlight hours, solar displaces coal and peaks at midday. The wholesale price of electricity (Australian dollar per mega-watt hour) is lowest during midday when solar output is high and peaks during early morning and evening.

Graph 2: Victoria's electricity generation and wholesale pricing: In Victoria, coal is the predominant fuel source used to generate electricity throughout the day. Other sources include solar, wind, hydro, batteries, gas and imports. Renewable fuel sources wind and solar together displace coal during the sunlight hours, peaking at midday. The wholesale price of electricity (Australian dollar per mega-watt hour) is lowest during midday when solar output is high and peak during early morning and evening.

Graph 3: New South Wales's electricity generation and wholesale pricing: In New South Wales, coal is the predominant fuel source used to generate electricity throughout the day. Other sources include solar, wind, hydro, batteries, gas and imports. During sunlight hours, solar displaces coal and peaks at midday. The wholesale price of electricity spikes in the evening as solar outputs drop, with dispatchable sources such as gas and batteries helping to manage evening peak periods. Midday wholesale prices are generally lower when solar generation is high.

Graph 4: Western Australia's electricity generation: Western Australia's electricity grid operates independently from the National Electricity Market, which operates in the eastern states of Australia. Electricity generation is dominated by gas, followed by coal and significant contributions from solar and wind. Batteries is another source of electricity generation. No wholesale price available.

Graph 5: South Australia's electricity generation and wholesale pricing: South Australia's electricity is generated largely by renewable sources including solar, wind and batteries. Gas and imports from other states are other fuel sources that become more predominant when solar generation is low. Wholesale prices of electricity (Australian dollar per mega-watt hour) are lowest during midday and peaking in early morning and evening.

Graph 6: Tasmania's electricity generation and pricing: Tasmania's electricity is generated largely by renewables, especially hydro. Other fuel types include solar, wind, batteries, gas and imports. The wholesale price of electricity is more stable than other States, with the price slightly increasing during the early morning and evening.

Source: Open Energy 2025, averaged over a three-day period in mid-May 2025 (72-hour period between 10th to 13th May).